

CLAIMS

1. An outdoor-installed power conditioner, comprising an enclosure (1, 50) housing a power converter (54, 114) therein,

5 wherein said enclosure includes an outer case (2) having a side face (2b) provided with an opening (4) for housing the power converter and a lid (3) for closing said opening (4), said outer case (2) including a first projecting strip portion (7) provided on a side close to a top face of said outer case (2) and on an outer peripheral portion (5) defining said opening (4), and extending to project outwardly from said
10 outer case (4),

said lid (3) including a second projecting strip portion (10) provided at a position facing said first projecting strip portion (7), and

with said opening (4) of said outer case (2) closed with said lid (3), said first and second projecting strip portions (7, 10) making close contact with each other along a
15 direction in which said first and second projecting strip portions extend.

2. The outdoor-installed power conditioner according to claim 1, wherein said outer peripheral portion (5) is formed of a ribbed body, surrounding said opening (4) and projecting from said side face (2b) provided with said opening (4).
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3. The outdoor-installed power conditioner according to claim 1, wherein said first projecting strip portion (7) extends from one end to the other end of said outer peripheral portion (5) provided with said first projecting strip portion (7).

25 4. The outdoor-installed power conditioner according to claim 1, wherein said first or second projecting strip portion (7, 10) includes a portion guiding the other projecting strip portion (7, 10) when said opening (4) of said outer case (2) is closed with said lid (3).

5. The outdoor-installed power conditioner according to claim 1, wherein said lid (3) further includes first fixing means (8a) provided in a face other than a face facing said opening (4) to fix said lid (3) to said outer case (2).

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6. The outdoor-installed power conditioner according to claim 1, wherein said enclosure (3) houses said power converter (54) requiring no maintenance work and a maintenance portion (62) requiring maintenance work, and said lid (3) includes a first portion (66a) closing said power converter (54) and a second portion (66b) closing said maintenance portion.

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7. The outdoor-installed power conditioner according to claim 6, wherein second fixing means (92) fixing said first portion (66a) to said outer case (2) is covered with said second portion (66b).

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8. The outdoor-installed power conditioner according to claim 6, wherein said second portion (66b) is provided lower than said first portion (66a), each of said first and second portions (66a, 66b) has an edge (95, 96) confronting each other, the edge (96) of said second portion (66b) is bent toward inside of said enclosure (1) to form an inclined face (94), and said inclined face (94) is located on a line extending from the edge (95) of said first portion (66a).

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9. The outdoor-installed power conditioner according to claim 1, wherein said enclosure includes an intake vent (105) and a first exhaust vent (106),

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said enclosure is provided with a fan (115) blowing air taken in from said intake vent (105) to flow through said power converter (114) to said first exhaust vent (106) to cool down said power converter (114), and

said fan (115) is inclined with respect to said first exhaust vent (106) such that a direction in which the air blown out from said fan (115) flows and a direction in which the air exhausted from said first exhaust vent (106) flows form an acute angle.

5 10. The outdoor-installed power conditioner according to claim 9, further comprising an exhaust channel forming member (103) communicating with said first exhaust vent (106) and provided adjacent to said enclosure, wherein said exhaust channel forming member (103) includes a second exhaust vent (107) for exhausting the air exhausted from said first exhaust vent (106) out of the outdoor-installed power
10 conditioner (101).

 11. The outdoor-installed power conditioner according to claim 10, further comprising an exhaust guide (139) guiding the air from said first exhaust vent (106) toward said second exhaust vent (107).

15 12. The outdoor-installed power conditioner according to claim 9, further comprising a waterproof member (111) formed on inside of said enclosure to cover said intake vent (105), wherein said waterproof member (111) includes an intake guide (133) guiding the air from said intake vent (106) toward said power converter (114).

20 13. The outdoor-installed power conditioner according to claim 9, wherein said fan (115) is mounted to be directly attachable to and detachable from said enclosure.

 14. The outdoor-installed power conditioner according to claim 1,
25 wherein said enclosure includes an intake vent (105) and a first exhaust vent (106),

said enclosure is provided with a fan (115) blowing air taken in from said intake vent (105) to flow through said power converter (114) to said first exhaust vent (106) to

cool down said power converter (114), and

an exhaust channel forming member (103) is connected to said enclosure,
said exhaust channel forming member (103) communicating with said first
exhaust vent (106) to form an exhaust channel (151) therein, and including a second
5 exhaust vent (107) for exhausting the air within said exhaust channel (151) outside, and
said exhaust channel forming member (103) having a top face inclined so as to
become lower in level with distance from said enclosure.

15. The outdoor-installed power conditioner according to claim 14,
10 wherein said second exhaust vent (107) is located lower than said first exhaust
vent (106), and

a first water stop member (108) projecting toward said exhaust channel (151) is
provided along a lower end portion of said first exhaust vent (106).

15 16. The outdoor-installed power conditioner according to claim 15,
wherein a second water stop member (109) is provided to project toward a
position lower than said first water stop member (108) in said exhaust channel, and
said second water stop member (109) is provided on a face facing a face
provided with said first water stop member (108).

20 17. The outdoor-installed power conditioner according to claim 16, wherein
said second water stop member (109) is inclined to form a substantially right angle with
respect to the top face of said exhaust channel forming member (103).

25 18. The outdoor-installed power conditioner according to claim 16,
wherein said second exhaust vent (107) is located in each of a right side face and
a left side face of said exhaust channel forming member (103), and
a projecting length of said second water stop member (109) located on one of an

exhaust route formed between said second exhaust vent (107b) in the right side face and a right end of said first exhaust vent (106) and an exhaust route formed between said second exhaust vent (107a) in the left side face and a left end of said first exhaust vent (106), with a longer distance when compared therebetween, is set to be longer than the projecting length of the second water stop member (109) located on the exhaust route of a shorter distance.

19. The outdoor-installed power conditioner according to claim 14, wherein said enclosure is mounted on a joining surface by locking said enclosure to the exhaust channel forming member (103) fixed on the joining surface.

20. The outdoor-installed power conditioner according to claim 14, wherein the air exhausted from said first exhaust vent (106) is guided by a backside of an inclined top panel (110) forming the top face of said exhaust channel forming member (103), and introduced to a lower part of said exhaust channel (151).